## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-2. (Cancelled)
- (Currently Amended) A method for determining optimal harvest window of *Echinacea* plants, wherein the method is used to prepare a standardized *Echinacea* extract, the method comprising the steps of:
  - harvesting at least one *Echinacea* plant at a plurality of maturation stages for the *Echinacea* plant:
  - producing a preparation of the *Echinacea* plant for each maturation stage; adding a preparation to a monocyte cell culture;
  - harvesting the cell culture;
  - analyzing the cell culture for a level of immune-stimulatory product induced by the preparation:
  - observing the level of the immune-stimulatory product corresponding to each of the different maturation stages;
  - determining a concentration of a marker compound of each preparation at the plurality of maturation stages, wherein the marker compound is either chlorogenic acid or chicoric acid;

selecting a maturation stage with:

- a standardized concentration of the marker compound that is used to prepare an extract of the *Echinacea* plant; and
- (ii) the highest level of immune-stimulatory product;

and preparing a standardized extract of the *Echinacea* plant at the selected maturation stage.

- 4. (Cancelled)
- 5. (Cancelled)

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- 6. (Previously Presented) The method of claim 3 wherein the immunestimulatory product is selected from the group consisting of cytokine mRNA and chemokine mRNA
- (Previously Presented) The method of claim 3 wherein the immunestimulatory product is an mRNA transcript selected from the group consisting of IL-1 alpha, IL-1 beta, IL-6, IL-8, IL-10, tumor necrosis factor alpha, interferongamma and macrophage inflammatory protein-1.
- 8-22. (Cancelled)
- 23. (Previously Presented) The method of claim 1, wherein the monocyte cell culture is a THP-1 cell culture.
- 24. (Currently Amended) A method for determining optimal harvest window of *Echinacea* plants, wherein the method is used to prepare a standardized *Echinacea* extract, the method comprising the steps of:

harvesting at least one *Echinacea* plant at a plurality of maturation stages for the *Echinacea* plant:

producing a preparation of the *Echinacea* plant for each maturation stage; adding a preparation to a monocyte or macrophage cell culture;

harvesting the cell culture;

analyzing the cell culture for a level of a translation product induced from the cell culture by each preparation;

observing the level of translation product corresponding to each of the different maturation stages;

determining a concentration of a marker compound for each preparation at the plurality of maturation stages, wherein the marker compound is either chlorogenic acid or chicoric acid;

selecting a maturation stage with:

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- a standardized concentration of the marker compound that is used to prepare an extract of the *Echinacea* plant; and
- the highest level of translation product induced from the cell culture:

and preparing a standardized extract of the *Echinacea* plant at the selected maturation stage.

25. (Previously Presented) The method of claim 24, wherein the monocyte or macrophage cell culture is a THP-1 cell culture.